

(4) 8803

# ALPHABETICAL INDEX

## FOR

## VOLUME II

## MINING CONGRESS JOURNAL

### A

Accident form.....	154
Accounting, Uniform.....	160
Aetna chemical plant (cut).....	132
After the War.....	98
Alabama mine safety work.....	311
Aluminum, new uses.....	135
Alaska to Uncle Sam (poem).....	122
Alaska—editorial.....	29
mines report.....	220
agriculture.....	133
Severe winter in.....	204
summer's work successful.....	502
Yukon trip.....	372
coal leasing.....	270
mining in 1916.....	310
metal output.....	384
American Mining Congress, Bureau of Mining Economics.....	273
convention.....	365, 393, 429, 472
History (with cuts).....	481
Offices.....	489
Arizona exhibit.....	501
American Institute meeting.....	497
Anaconda Commission meets.....	107
Anthracite Map.....	94
strike.....	307
used in many States.....	490
Production of.....	496
Use of machines.....	513
Anticlinical theory.....	522, 526
Antimony, zinc content.....	272
treatment.....	122
prices.....	93
Apex law.....	363
condemned.....	394
opinion by Knight.....	314
in Philippines.....	68
Appropriations, U. S. G. S.....	120
hog cholera.....	131
Arizona, asbestos mining.....	327
mineral output.....	322
copper production.....	418
New ore bodies.....	63
Chapter meeting.....	20
Arkansas "lakes".....	120
Arsenic, chance for profit.....	120
Asbestos production.....	327
in Georgia.....	307
Arizona output.....	149

### B

Ball, Max W.....	535
promoted.....	173
(cut).....	403
Bastin, E. S. (cut).....	176
Barium mines visited.....	276
Bauxite in Georgia.....	208
Big Horn basin report.....	114
Birdseye narrates adventure.....	75
Bishop, Roy A.....	536
Black Hills folio.....	76
Blast furnace practice.....	519
Bolivian tin.....	73
Branner, Dr. J. C., honored.....	124
Bristol district.....	436
Bully Hill smelter (cut).....	63
Bureau of Mining Economics.....	273
Bureau of Mines, Preparedness in.....	161
and labor.....	117
Safety First train.....	269
concerning patents.....	307
exhibit at Chicago.....	527
scientific societies.....	536
fire.....	131
exhibit at chemical show.....	471
saves oil industry \$50,000,000.....	479
rescue and recovery operations.....	491
library.....	500
official's life saved.....	501
exhibit at Detroit.....	506
Burrell, Geo. A., sketch.....	361
Butler, B. S.....	233
Butte Sanitary Survey.....	275
C	
California, hookworm in mines.....	304
Safety Bear.....	274
cooperation.....	176
inspection.....	255
Callbreath, J. F. (cut).....	473, 534
Calumet and Hecla anniversary.....	366
Calumet leaching plant.....	249
Canal mineral tonnage.....	454
Carborundum materials.....	78
Car supply.....	421, 449
Castle Rock folio.....	151
Cement output.....	322
Chemical statistics.....	512
Cherry Creek district.....	440
Chromite, California.....	49, 122

Coal, Alaskan leasing.....	270	Cryolite.....	281
operators confer with Federal Trade		Cushing, Geo.....	540
commission.....	278		
wage scale.....	119	<b>D</b>	
consumption statistics.....	181	Davis, Chas. A., dies.....	226
Strike Commission.....	174	Delegates appointed by president.....	475
Future of.....	351	Dering, C. L.....	527
Railroad statistics.....	366	Detonators.....	244
Taxation system.....	382	Devil's Tower.....	62
statistics.....	168, 391	Disease among miners.....	245
safety costs.....	550	Dolly Varden district.....	441
cooperation.....	526	Douglas, Walter—editorial.....	480, 521
waste in retailing.....	536	Cartoon of.....	527
Idle mines.....	526	Du Pont, protests against tax.....	376
Washing of.....	528	Dynamite prices.....	310
trade better.....	530		
price regulation.....	534	<b>E</b>	
Coking of.....	535	Editorials, Annual convention.....	287
labor and price.....	493	Cooperation.....	287
Machines in mining.....	494	Trade Commission request.....	288
Ohio freight rates.....	480	Foster Bill.....	288
Shooting from solid.....	489	Appropriation cut.....	288
Kansas production.....	490	Criminal waste.....	289
competition with oil.....	496	Alaskan Railway.....	289
strike increases stock.....	498	Armor plate.....	290
Semi-bituminous.....	499	Mining Congress Journal.....	291
Canadian competition.....	501	Discrimination against mining.....	291
in Oregon.....	502	Accident figures.....	292
in Tennessee.....	502	Sundry Civil Bill.....	293
in Kentucky.....	508	Tavener Bill.....	333
selling at a loss.....	508	Collective bargaining.....	334
strikes and production.....	512	Trade and efficiency.....	334
classifications.....	513	Markets.....	335
Electrification of C. M. & St. P.....	513	Government pay.....	335
in Iowa.....	514	Tungsten prices.....	335
case in Supreme Court.....	516	Conservation.....	445
elimination of refuse.....	519	Mine safety.....	445
in Alabama.....	517	Public lands.....	445
Combustion of.....	233	Potash.....	445
production slackens.....	129	Arbitration.....	445
dust experiments.....	82	Mining law revision.....	445
explosibility.....	169	Copper tax.....	369
shipments.....	427	Convention.....	370
in Kentucky.....	432	By-laws.....	370
in Virginia.....	438	Mine manufacturing.....	371
tar dyes.....	514	M. D. Foster.....	371
lands suit.....	225	Bureau of Mines.....	371
Coke, in U. S. in 1915.....	397	Revenue bill.....	407
for heating.....	392	Mid-year statements.....	408
ovens, by-product.....	220	Smokeless firing of coal.....	408
Colorado Metal Mining Association.....	136	Mr. Lane and Mr. Pinchot.....	409
Conservation Congress meets.....	117, 284	Coal problems.....	409
Cooperative selling agency.....	506	Cooperation and statistics.....	410
Copper, matte case.....	344	Nineteenth convention.....	521
Nevado production.....	316	Salary scale.....	521
production.....	311	Walter Douglas.....	521
estimate on.....	272	Balanced attendance.....	521
tax on.....	349, 387	Exhibitors.....	522
in Germany.....	122	Carl Scholz.....	522
profits.....	540	Compulsory arbitration.....	410
smelters.....	490	Joplin.....	411
advance in metallurgy.....	508	Vital issues to come up.....	469
California law.....	508	Efficiency a necessity.....	469
production.....	511	Only reputable firms allowed to	
mines, deaths in.....	173	advertise.....	469
Cottrell, F. G.....	281, 494, 530	Big things being done by coopera-	
Crews, Ralph (cut).....	501	tive effort.....	469
Crocote.....	262	Engineers name committee.....	66
Crosby, Geo. H.....	536		

Graphite . . . . .	244	Mineral resources report . . . . .	198			
Graphite importations . . . . .	48	Mineral separation . . . . .	131, 275, 482			
Graphite prospects . . . . .	265	Minerals separation decision . . . . .	235			
Graphite situation . . . . .	271	Mining claims . . . . .	252			
Graphite studies . . . . .	165	Monazite imports . . . . .	69			
<b>H</b>						
Harassed by labor . . . . .	280	Montana's metal output . . . . .	36			
Henderson on potash . . . . .	93	<b>N</b>				
Hess, F. L., on tungsten . . . . .	231	Navy's spelter . . . . .	127			
High speed steel . . . . .	254	Nevada's metal production . . . . .	26			
Holmes, J. H., on tungsten . . . . .	232	New Mexico's metal output . . . . .	23			
<b>I</b>						
Idaho's metal output . . . . .	38	Nitrate disposal . . . . .	90			
Iron and steel trade . . . . .	212	Nitrate plant operation urged . . . . .	502			
Iron for France . . . . .	58	Nitrate restrictions . . . . .	271			
Iron-making Bacteria . . . . .	356	Nitrate stocks . . . . .	138			
Iron ore . . . . .	53	Nitrogen administration . . . . .	118			
Iron ore production . . . . .	116	Nitrogen commission . . . . .	349			
Iron ore rates . . . . .	222	Non ferrous sales . . . . .	308			
Iron works in orient . . . . .	326	<b>O</b>				
<b>J</b>						
Japanese steel . . . . .	160	Oregon's metal output . . . . .	30			
Japanese steel plans . . . . .	196	<b>P</b>				
Joplin district . . . . .	503	Phosphate price . . . . .	369			
<b>L</b>						
Labor in copper mines . . . . .	94	Pig iron . . . . .	407			
Lead . . . . .	146, 148	Platinum . . . . .	273			
Lead market . . . . .	159	Platinum, occurrence of . . . . .	495			
Lead prices (chart) . . . . .	237	Platinum, physical properties of . . . . .	502			
Lead production . . . . .	20	Potash . . . . .	32			
Lead situation . . . . .	280	Potash bill . . . . .	92, 221, 244, 350			
Lead smelter . . . . .	222	Potash hearing . . . . .	230			
Lead stocks . . . . .	172, 234	Potash production analyzed . . . . .	355			
Leasing bill . . . . .	400	Pyrites . . . . .	83, 118, 125, 245			
<b>M</b>						
Magnesite . . . . .	130, 245, 402	Pyrites importation . . . . .	66			
Magnesite, Austrian . . . . .	355, 358	Pyrites situation . . . . .	253			
Magnesite bill passes . . . . .	337	<b>Q</b>				
Magnesite construction important . . . . .	489	Quicksilver . . . . .	125, 244, 266			
Magnesite duty . . . . .	308	Quicksilver supremacy . . . . .	209			
Magnesite investment . . . . .	274	<b>R</b>				
Magnesite mines in Austria . . . . .	337	Restrictions removed . . . . .	241			
Magnesite reserves . . . . .	273	<b>S</b>				
Magnesite situation . . . . .	243	Saline takes . . . . .	350			
Magnesite's tariff needs . . . . .	313	Sharp on potash . . . . .	93			
Magnesite, uses of . . . . .	487	Silver . . . . .	431			
Manganese, . . . . .	83, 172, 192, 245, 276, 369, 415, 424	Silver exports . . . . .	196			
Manganese imports . . . . .	69	Silver for India . . . . .	194			
Mesothorium . . . . .	14	Silver its future . . . . .	197			
Metal stocks . . . . .	102	Silver mines open . . . . .	266			
Mica in Alabama . . . . .	266	South Dakota's gold yield . . . . .	28			
Minerals abroad . . . . .	115	Spelter . . . . .	127, 254			
Minerals at peace conference . . . . .	115	Spelter economies . . . . .	171			
Mineral bulletin . . . . .	310	Spelter stocks . . . . .	171			
Mineral industries . . . . .	201	Steel . . . . .	408, 415			
Mineral interdependence . . . . .	369	Steel exports . . . . .	306			
Mineral leasing . . . . .	86	Steel prices . . . . .	115			
Mineral leasing bill . . . . .	400	Steel practice . . . . .	308			
Mineral market . . . . .	126	Steel production in Germany . . . . .	204			
Mineral resources . . . . .	48	Sulphur . . . . .	202			

<b>T</b>	
Talc production.....	350
Texas metal output.....	18
Tin, exports of.....	10
Tin imports.....	273
Tin orders.....	265
Tin ore restrictions.....	280
Tin restrictions.....	164, 241
Tin situation.....	117
Tin stagnate.....	195
Treasury gold report.....	73, 88
Tungsten.....	83, 139, 270
Tungsten hearing.....	231
Tungsten tariff.....	265
<b>U</b>	
Utah's metal output.....	37
<b>W</b>	
Wages.....	80
<b>COAL</b>	
<b>A</b>	
Anthracite production.....	25,63
<b>B</b>	
Bituminous production.....	63,69
British fuel problems.....	67
By-product coke.....	63
<b>C</b>	
Canadian coal.....	33
Carnegie Institute.....	270
Central Committee.....	496
Coal car shortage.....	317
Coal contracts.....	160
Coal department opened.....	196
Coal diversion.....	412
Coal export situation.....	211
Coal exportation.....	402
Coal in France.....	20
Coal investigation.....	277
Coal legislation urged.....	213
Coal loadings.....	133
Coal miners' demands.....	351
Coal mining education.....	270
Coal output.....	24
Coal prices.....	147
Coal production.....	415
Cost reports.....	98
Coal shipments.....	228
Coal Tar Bill passed.....	350
Coal tariff.....	273
Coal's immediate need.....	95
Coal's potentialities.....	49
Coke.....	179
Coke production.....	68
Consolidation Coal Co.....	137
Cooperation urged.....	138
Clay products savings.....	64
Committee statement.....	491
Cushing, G. H. (article).....	161
<b>D</b>	
Daylight saving.....	135
<b>W</b>	
War department surplus.....	228
War minerals.....	480, 483
War minerals claims.....	188, 239
War minerals findings.....	234
War minerals relief.....	19, 76, 126
War minerals resolutions.....	19
World's gold production.....	53
World's minerals.....	103
<b>Y</b>	
Year's mineral output.....	34
<b>Z</b>	
Zinc.....	148, 245
Zinc bill passes.....	307
Zinc chapter.....	98
Zurich exchange.....	326
Zinc production.....	20, 338
Zinc reduction capacity.....	140
<b>E</b>	
Demand light.....	132
District representatives.....	53
<b>F</b>	
Europe needs U. S. coal.....	336
European coal situation.....	267
European tariff.....	234
Exports analysed.....	65
Export coal.....	39,189
Exports for Switzerland.....	236
Export restrictions.....	72
Export tariff.....	234
Exports to Denmark.....	394
<b>G</b>	
First aid contest.....	238
French mines destruction.....	66
Fuel Administration.....	24
Fuel priority.....	417
<b>H</b>	
Hines fuel policy.....	47
Hines on car shortage.....	317
Hines on coal contracts.....	160
Hines' statement.....	492
<b>I</b>	
Indian Reservations.....	250
Industrial stocks.....	178
Investigation of coal.....	304
Iron and steel stocks.....	179
Italy's coal shortage.....	57
<b>L</b>	
Labor—Taylor's views.....	304
Lehigh coal case.....	179
Leno mines.....	17
Lignite bill.....	30
Loadings.....	52,65,94,415

<b>M</b>		<b>S</b>	
Mines and carriers	201	Senate coal probe	304
Morrow's letter	493	Shipping board plan	189
<b>N</b>		Shortage predicted	77
National Coal Ass'n	193	Smokeless for lakes	57
<b>O</b>		Stabilization of industry	74
Operators' statement	490	Statistics needed	350
<b>P</b>		Stocks	178
Pennsylvania costs	352	Strike	490
Pittsburgh meet	238		
Prices	134		
Prices and zones end	69		
Production	130		
Production at high mark	337		
Profits	95		
Public utilities stocks	178		
<b>R</b>			
Railroads and mines	201		
Railroad fuel	47		
Railroad policy	102		
Record custodian	72		
Regulation ends	85		
Reply to McAdoo	494		
Requisitions cancelled	31,72		
Restrictions amended	72		
Retail stocks	179		
Rice on European mining	343		
<b>T</b>			
Taylor, H. N., testifies	304		
Tendencies in coal	161		
Tidewater shipments	89		
<b>V</b>			
Vermont talc	392,419		
<b>W</b>			
War lessons	76		
War mineral claims	401		
War mineral tariffs	390		
Watson, Col. C. W.	137		
Weekly reports	68		
<b>Y</b>			
Year's production	56		
<b>Z</b>			
Zones	416		

### GENERAL

<b>A</b>		<b>C</b>	
Accident figures	242	California chapter organized	54
Advisory Tax Board	306	California's new record	56
Alaska chapter	33,139	California section	421
Alaskan railroads	472	Callbreath, J. F., testimony	404
Alien property report	131,136	Canadian Institute	132
American Institute meeting	310	Canadian labor conference	303
Anti-trust laws	250	Capital's obligations	118
Arizona chapter	36,397	Carbon black	40
Arizona conditions	355	Carmichael, Norman	36
Arizona legislation	180	Catch-phrases	119
Arizona Wage Scale	343	Census	431
Arkansas gas	89	Chamber of Commerce of U. S.	194
Atwood, L. R. (cut)	85	Channing, J. P. (address)	173
<b>B</b>		Chemical warfare	200
Bastin, E. S.	48,399	Clausen, John, special article	379
Becker, Geo. F. (cut)	166	Colorado chapter	58,406
Bethlehem steel	265	Commission	487
Bethune, John F.	342	Committees	372
Bill of lading order	276	Compensation payments	70
Blue Sky Law	404	Conklin, A. B., special article	395
Bolshevism	252,474	Contingent fee clause	177
Bureau of Mines administration	269	Convention (1919)	370,462
Bureau of Mines chart	268	Cooperation	78
Bureau of Mines station	191	Corlett, R. D. (cut)	373
Burns, John T. (Special article)	240	Cottrell, Dr. F. G.	91
Burrell, Col. G. A. (cut)	159	Cuban Geological Survey	164
Business subnormal	165	Cummins Bill	339,432
Butte situation	326	Cushing, Geo. H. (special article)	119, 277, 422

(5)			
D			
Demurrage rules.....	233	Industrial conference named.....	488
Department of labor.....	170	Industrial democracy.....	240
Dickey, E. A., special article.....	393	Industrial exposition.....	252
Directors' meeting.....	11	Industrial relations.....	250
Doheny, E. L. (cut).....	12	Interior department.....	250
Doheny passport.....	276		
Door of opportunity.....	199	J	
Dyestuffs.....	245	Jenkins, S. H., reelected.....	202
E			
Economic liaison committee.....	431	Joplin chapter.....	98
Education.....	252	Joyes, Col. J. W.....	349
Eliot on labor.....	118		
Emergency tariff hearings.....	229	K	
Energy resources.....	354	Kansas chapter.....	414
Engineer conference.....	173	Katz, F. J. (cut).....	451
Exhibitors.....	450	Kavanaugh, W. K. (cut).....	371
Exhibitors at Convention.....	485	Kerosene exports.....	342
Experiment stations.....	468	Kerosene stocks declining.....	356
Export list.....	269	Kiel, Henry W. (cut).....	370
Exposition.....	372	Krupp plant.....	303
F			
Fake stocks.....	171, 273		
Fall line.....	272	L	
Fay, A. H., address.....	242	Labor.....	245
Federal Trade Commission.....	78, 98, 428	Labor and capital.....	60
Ferguson, Homer L.....	194	Labor and the market.....	344
Fertilizer control abandoned.....	489	Labor bills.....	438
Forests.....	250	Labor conditions.....	118
Foster, M. D. (cut).....	126	Labor conference.....	406
Fries, Col.....	200	Labor decisions.....	68
Fuel oil contracts.....	169	Labor exodus.....	209
Fuel oil market easy.....	348	Land bills.....	443
G			
Gardner, Gov. F. D. (cut).....	370	Lawrie, H. N. (cut).....	266
Garland, M. M. (cut).....	117	Lawrie, H. N., special article.....	309, 382
Gas order.....	130	Leasing.....	251
Gas order modification.....	87	Leasing bills.....	441
Gas regulations.....	85	Leasing bill fails.....	86
Gas waste.....	47	Lee, Robt. E. (cut).....	373
Gasoline consumption.....	333	Legal decisions.....	356
Gasoline production increased.....	355	Legislation.....	141, 214
Gasoline specifications.....	487	Lenroot's railroad plan.....	302
Gasoline transportation.....	269	Lewis, J. O.....	90, 172
Geological line.....	272	Life blood of war.....	82
Geologists resign.....	496	Living costs analyzed.....	314
Goose Creek pool.....	56	Living cost probe.....	128
Groom, W. F. (cut).....	372	Lloyd, E. R. (cut).....	169
H			
Hall, R. Dawson, special article.....	425	Louisville order.....	103
Hector fuel.....	127		
Henderson, Senator (cut).....	90	M	
Homestead entries.....	85	Machinery company attacked.....	274
Hood, O. P. (cut).....	47	Machinery exhibits.....	450
Howard, John C. (cut).....	11	Manning, Van H.....	420
I			
Import restrictions.....	195	Manning addresses chamber.....	27, 238
Inadequate compensation.....	496	Mathewson, E. P. (cut).....	12, 495
Income tax.....	378	Mexican decree.....	135
Industrial board.....	115, 123, 147	Mexican mining law.....	274





## ALPHABETICAL INDEX FOR VOLUME II

3

Experiment stations..... 433  
 probable location..... 310  
 selected..... 355  
 Explosives, permissible..... 360  
 saving in..... 129, 534

**F**

Fairbanks experiment station..... 355  
 Fatalities, report on..... 151  
 Fay, A. H., work praised..... 530  
 Federal legislation..... 72, 130  
 Ferberite, in Colorado..... 126  
 Ferguson, H. G..... 227  
 Field assignments..... 452  
 Field meets..... 400  
 in California..... 418  
 First Aid..... 531, 536  
 benefits of..... 132  
 training, example..... 124  
 progress..... 320  
 work standardized..... 160  
 Evansville incident..... 354  
 Juneau incident..... 357  
 Flotation, literature on..... 182  
 process in Utah..... 116  
 importance of..... 242  
 in Joplin district..... 189  
 Fluorspar, price..... 306  
 Foster's program..... 24  
 Foster, M. D. (cut)..... 509  
 Foster Bill, opinion on..... 263  
 Forest regulations..... 199, 221  
 Forests, management of..... 332  
 Fossils..... 451, 457  
 Friedman, L. A. (cut)..... 475  
 Fuel, saving of..... 367  
 for Government..... 415

**G**

Gann, Thos. M..... 534  
 Gas occurrence..... 121  
 measurement of..... 151  
 Gasoline supply and price..... 115  
 Gemmell, R. C., Utah Commission..... 191  
 Geographic names..... 186  
 Georgia asbestos production..... 307  
 Geologic time..... 325  
 Geological survey, military training camps..... 268  
 preparedness in..... 161  
 Gold production in South Dakota, 313, 314  
 Golden gets mines station..... 68  
 Graphite, production of..... 225  
 in Texas..... 360  
 prices..... 150, 319  
 British order..... 275  
 stimulating..... 260  
 affected by war..... 131  
 Great Lakes, geological history of..... 397  
 Green sands, investigation of..... 149  
 Ground water..... 368  
 Gulfport exposition..... 121

**H**

Harder's experiments..... 63  
 Health precautions..... 442  
 Hess, Frank L. (cut)..... 168  
 Hill, J. M., visits barium mines..... 276  
 Holmes Memorial Association..... 121

Holmes Safety Association..... 61, 155  
 Homestake mine production..... 310  
 Paige hypothesis..... 312  
 Hookworm in California..... 304  
 Hoover, Theo. J., to open New York office..... 498  
 Horner, Roy R..... 540  
 House committee scored..... 217  
 Houtzdale, coal mining..... 231  
 Hurley, Edward N., meets operators..... 310, 490

**I**

Incidental geological finds..... 80  
 Industrial Relations Commission..... 97  
 Insurance in Pennsylvania..... 167  
 Interior building (cut)..... 121  
 Iron pyrite..... 427  
 bacteria..... 354  
 output..... 319  
 tonnage through canal..... 494

**J**

James, H. G. (cut)..... 507  
 James, G. B..... 527  
 Jones, Lewis M., dies..... 495, 540  
 Joplin zinc ores..... 62  
 Juneau operations..... 101

**K**

Kaolin in the U. S..... 120  
 Keith, Chas. S. (cut)..... 475  
 Kemmerer, M. S. (cut)..... 474  
 Kimball urges cooperation..... 14  
 Kithil, Karl (cut)..... 355, 526  
 Knopf, Adolph, sketch..... 357  
 Korous, Miss Rose (cut)..... 379

**L**

Labor Department report..... 21  
 Labor shortage..... 420, 522, 527  
 Laist, Frederick (cut)..... 514  
 Lane praised..... 258  
 Larsen, E. S., Jr. (cut)..... 443  
 Leasing legislation..... 213  
 Leasing bill, opinion on..... 267, 274, 477  
 Lead..... 444  
 production..... 100, 315  
 Legislation..... 259, 303, 385  
 Federal..... 328  
 Thoughts on..... 193  
 Library of Geological Survey..... 437  
 Lignite..... 404  
 in North Dakota..... 478  
 in Texas..... 508  
 investigation..... 212  
 western..... 234  
 Lupton, C. T. (cut)..... 399

**Mc**

McCaskey, H. D., sketch with cut..... 314  
 on relationship of metals..... 434  
 McCord, Miss Julia L. V. (cut)..... 437  
 McDowell, J. C. (cut)..... 518

**M**

Magnesite mining..... 236  
 Magnesium..... 362  
 Maine has tin vein..... 21  
 Mammoth Copper Company..... 178

Manganese, buyers of.....	416	men protest.....	14
Manganese output.....	318	in Teton County, Mont.....	354
Manning, Van H.....	531, 535	in Montana.....	362
Harrisburg speech.....	169	shales, future of.....	358, 410, 513
reviews work of year.....	4	cost compared.....	313
made member Research Council.....	400	Oklahoma, selter output.....	401
addresses mine workers.....	59	Ore sampling, standardization of, 359, 402	
western trip.....	433	Osage oil lands.....	400
meets operators.....	62		
urges law revision.....	90	<b>P</b>	
Maps for five cents.....	160	Paige, Sydney, sketch with cut.....	320
Maryland coals.....	478	Pan American papers to be printed.....	480
Matanuska coal.....	412	Panama slides.....	123
Metal mining methods.....	540	Paradox valley, storm in.....	126
Metal mine fatalities.....	173	Parsons, C. L. (cut).....	276
Metallurgists.....	126	on coke making.....	215
Metallic arsenic.....	53	Parker, E. W.....	526, 536
Metallurgy of Tungsten.....	20	Patents, policy as to.....	530
Methane in Indiana mine.....	160	Payne, Henry Mace.....	156, 518, 526
indicator.....	164	Permissible explosives.....	230
Mexican mining decrees.....	541	Petroleum, work of Bureau of Mines, 459	
Mica.....	451, 455	production.....	317
Mid-continental field.....	457	mid-continental field.....	514
Mineral production in 1915.....	9	altitude of wells.....	518
Montana.....	11	Bureau of.....	271
Oregon.....	12	logs on wells.....	282
Arizona.....	13	experiment station.....	505
Colorado.....	15	Phalen, W. C. (cut).....	279, 405
Idaho.....	17	Division of work.....	400
Texas.....	18	Phosphoric acid.....	395
Utah.....	19	Phosphorus fertilizer.....	360
Alaska.....	22	Phosphate output decreases.....	496
California.....	25	demand foreseen.....	519
Washington.....	28	Pitchblende, Colorado.....	198
South Dakota.....	39	Platinum.....	428, 436, 520
New Mexico.....	42	Platinum, Russian export tax.....	131
Nevada.....	52	Platinum in Spain.....	119
Mineral mine accidents.....	79, 135, 256	Pope, George S., sketch with cut.....	330
Mineral land decisions.....	187	Potash.....	425, 518
Mine inspectors meeting.....	109, 286	paper on, by W. C. Phalen.....	279
Mines exhibit at Panama.....	74	at cement plants.....	294
Mining law.....	526	Searles Lake.....	366
Mining law revision.....	209	work in.....	199
Moderwell, C. M. (cut).....	474	Prehistoric reptiles.....	94
Molybdenite duty.....	80	President asks cooperation.....	66
Molybdenum, Horton's report on.....	157	Prospects, price of.....	152
distribution.....	114, 219	Public interest in minerals.....	178
Montana, mineral production.....	325, 362	Publication committee, Bureau of	
Morrow on guide books.....	67	Mines.....	136
Mud laden fluid.....	478	Public land.....	419
<b>N</b>		policy.....	505
Nanadinite crystals.....	217	Pyrites from Alaska.....	149
Nevada mountains.....	438		
camps, mapped.....	156	<b>Q</b>	
New Mexico, mineral output.....	323	Quicksilver output.....	318
chapter formed.....	342		
Nickel.....	459, 537	<b>R</b>	
Nickel, in U. S.....	402	Radium.....	118, 443, 508, 550
Nickel, Canadian production.....	226	February delivery.....	149
Nitrate.....	53	isolated twice.....	181
<b>O</b>		Riordan, D. M.....	195
Oatman district survey.....	216	Randall resolution.....	240
Ocean freight rates.....	231	Ransom, F. L. (cut).....	192
Ohm, F. C., death of.....	192	Rare metals.....	74
Oil, in Colorado and Utah.....	412	Registration at Mining Congress con-	
prices.....	406	vention.....	545
leasing manipulations.....	125	Rescue cars.....	405
		Research council.....	435
		bill.....	549

## ALPHABETICAL INDEX FOR VOLUME II

2

Restorations.....	459	531
Revenue bill.....	349	387
Revision of laws, committee report.....	5	
	136	283
Foster wants action.....	494	
hearing.....	55	
Wickersham criticized.....	381	
Rice, Geo. S. (cut).....	268	
to Canada.....	540	
inspection trip.....	454	
Riter, Geo. W., dies.....	392	
Rittman, Dr. W. F.....	535	
process.....	132	405
acknowledges aid.....	232	
bulletin.....	257	
Roberts, J. C. (cut).....	198	
Rochester district.....	343	422
Rock dust application.....	179	
Roslyn coal fields.....	165	
Russian survey.....	397	
<b>S</b>		
Safety first, origin of.....	174	
exhibit.....	109	196
week.....	69	
train.....	269	
results.....	356	
tour ends.....	356	400
Safety engineering.....	286	
Safety work.....	449	
Safety lamp.....	353	
Salt peter, price of.....	423	
Salt Lake City, flotation center.....	65	
Scheelite, production.....	308	312
Scholz, Carl (cut).....	473	
editorial.....	522	
presented watch.....	533	
complimented.....	534	
promoted.....	106	
testifies.....	223	
Schrader, Frank C., sketch with cut.....	326	
Seattle mining experiment station.....	529	
Shaw, Eugene W. (cut).....	428	
Sieenthal, C. E.....	219	
Silver production.....	313	
in Texas.....	309	
Slate, in 1915.....	307	
Sledge Tatnum dies.....	63	
Smelter rates.....	102	
Smith, Philip S. (cut).....	402	
Smith, Sumner S.....	129	
Smith, Geo. Otis (cut).....	468	
to speak in Maine.....	471	
to address Geological Society.....	498	
oil testimony.....	148	
on public business.....	218	
on water power.....	64	
Smoke is needless.....	362	
Soapstone, output.....	131	
South Dakota, gold production.....	314	
Spelter output increases.....	95	
in Oklahoma.....	401	
Spencer, A. C. (cut).....	282	
Spofford, Mrs. Edith (cut).....	500	
State geologists.....	399	431
Steam shovels, in coal mining.....	396	
Steel, small plants.....	367	
Stream data.....	201	
Strikes, address on.....	119	
<b>T</b>		
Strontium deposits.....	160	
Sub-strata boring.....	114	
Sulphur.....	397	
demand for.....	357	
in Louisiana and Texas.....	432	
Supreme Court decisions.....	127	
Survey appropriation.....	64	
Sylvanite, data on.....	317	
<b>T</b>		
Talc, production.....	136	
Tampico field.....	443	
Tantalum, analysis of.....	323	
demand for.....	120	
Taylor on Foster Bill.....	167	
Technical terms.....	392	
Tennessee mining boom.....	121	
Texas silver production.....	309	
Thompson, J. W. (cut).....	512	
Throat telephone.....	330	
Tin, federal aid for.....	116	
in Alaska.....	76	
Tin ore, sample of.....	256	
Tintic District Bulletin.....	68	
Tonopah, Baston report on.....	175	
Topographic maps, in popular language.....	274	
Tucson experiment station.....	355	
Tungsten, prices.....	302	
secondary enrichment.....	286	
foreign market for.....	393	
profit in.....	260	
as an alloy.....	214	
development.....	222	
low grade.....	362	
Tupper, C. A.....	550	
<b>U</b>		
Useful minerals.....	68	
Utah, mineral output.....	321	
Copper Company.....	190	
News notes.....	113	277, 331
Promontory district.....	383	
Special examination.....	417	
Surveys.....	311	
Unions and efficiency.....	256	
<b>V</b>		
Vaile, Joel F., dies.....	232	
Vanadinites, use of.....	316	
Vanadium in Colorado.....	23	
in Peru.....	400	
Van Wageman, F. W.....	496	526
Vernadsky.....	400	
Virginia mining boom.....	121	
<b>W</b>		
Washington, coal markets.....	489	
Waste in mining.....	531	
White, David.....	526	
White, Dr. I. C.....	522	
Whitney, W. R.....	493	528, 537
Wickersham book collection.....	549	
Willard, H. E. (cut).....	6	
Williams, W. A.....	493	
Withdrawals.....	520	
Wolfkin, H. M., sketch with cut.....	531	
succeeds Paul.....	324	

Woodbridge, T. R., on sampling.....	441	Zinc, sales of.....	539
Wood tin.....	329	importations.....	496
Working in thirty-six States.....	218	sold ahead.....	276
Wyoming, foundry coke.....	411	imports.....	286
<b>Z</b>			
Zang, Adolph, dies.....	516	production.....	315
		in northern Arkansas.....	182
		rule for appraisement.....	455
		Head address.....	177

